

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/112446 A1

(51) International Patent Classification⁷: **H05G 1/64, A61B 19/00**

(21) International Application Number:
PCT/FI2003/000484

(22) International Filing Date: 16 June 2003 (16.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **INSTRUMENTARIUM CORPORATION [FI/FI]**; Kuortaneenkatu 2, FIN-00510 Helsinki (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VARJONEN, Vesa [FI/FI]**; Siltakatu 13 B 4, FIN-05900 Hyvinkää (FI). **ONNELA, Jouni [FI/FI]**; Rekikuja 2, FIN-00950 Helsinki (FI).

(74) Agent: **BERGGREN OY AB**; P.O. BOX 16, FIN-00101 Helsinki (FI).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

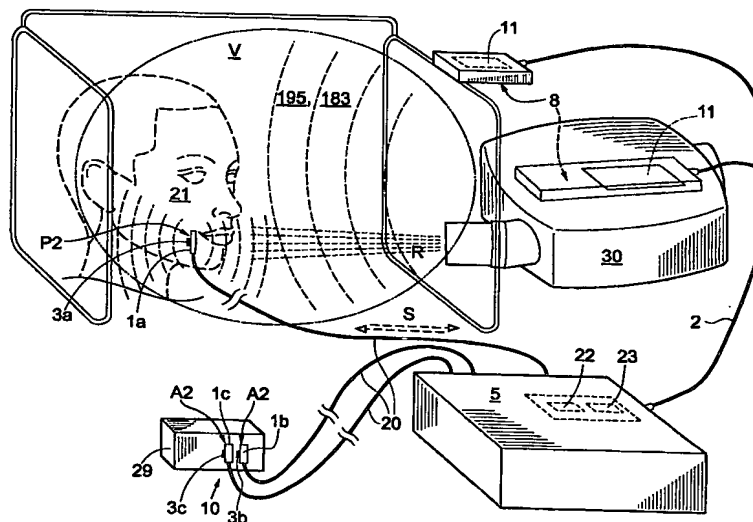
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IDENTIFICATION OF DETECTOR UNITS IN X-RAY IMAGING



(57) Abstract: The invention concerns a device for identification of a detector unit in an X-ray imaging apparatus. For this purpose there is a detector unit (1a or 1b or 1c ...), selected from a group (10) of different detector array units (1a, 1b, 1c...), and a transmitter-receiver (8) at side(s) of a space (V) for said object or a rack for storing those detector units belonging to said group. Recognition means (11) or a sensor units capable of detecting presence and absence of the detector units is also provided, as well as a communication line (2) for providing identification data concerning the presence (P2) or absence of a single detector unit in a predetermined volume or place.